



Ion Exchange Membrane Design for Energy Conversion and Storage

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Message from the Guest Editor

Dear Colleagues,

Ion exchange membranes (IEMs) represent the key component of many electrochemical energy conversion and storage systems, including fuel cells, electrolyzers, reverse electrodiolizers, and batteries.

As charged functional materials, these materials allow a selective passage of ions between separate compartments in electrochemical devices. In the past years, research on IEMs has focused on improving the performance of these materials mainly in terms of conductivity, selectivity, and stability, among others, followed by testing and analysis in the prospective technology of interest. Thus, this Special Issue aims at bringing together some new developments in ion exchange membrane material design as well as application in some of the rapidly growing areas of interest related to clean energy generation, hydrogen production, and electrochemical CO₂ reduction.

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Guest Editor





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Message from the Editor-in-Chief

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