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Innovative Approaches for Fabricating Membrane Electrode Assemblies for Fuel Cells and Water Electrolysis Applications

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Message from the Guest Editor

Fuel cells and water electrolysis are both important technologies that have the potential to significantly impact the energy sector and help address environmental challenges. Fuel cells are devices that convert chemical energy into electrical energy through the electrochemical reaction process. They have several advantages over traditional energy sources. Membrane electrode assemblies (MEAs) play a crucial role in both proton exchange membrane (PEM) fuel cells and water electrolysis cells as they serve as the heart of these devices. The performance and durability of PEM fuel cells and water electrolysis cells depend largely on the quality and performance of the MEA.

This Special Issue invites research articles and review papers that deal with: innovative strategies to engineer catalyst layers and gas distribution layers; catalyst ink formulation; and novel strategies to enhance MEA performance in PEM and AEM fuel cells and electrolyser cells.



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