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Anion Exchange Membrane Fuel Cells (AEMFCs)

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Message from the Guest Editors

Anion exchange membrane fuel cells (AEMFCs), membrane-based fuel cells based on the transport of alkaline anions, have drawn much attention recently due to the cost-effectivenss of non-platinum-group metal (non-PGM) electrocatalysts enabling sluggish oxygen reduction reaction (ORR) compared to proton exchange membrane fuel cells (PEMFCs) and the mitigation of the carbonate precipitation issue in KOH solutions in alkaline fuel cells (AFCs).

This Special Issue aims to encompass recent advances in the development and operation of MEAs, which have promising potency and persistence for AEMFCs, electrolyzers, and their related applications. The Special Issue will accept original research articles and reviews in subject areas, including the synthesis, fabrication, mathematical modeling, and simulation of anion exchange membranes, non-PGM catalysts, ionomers, gas diffusion layers, and other schemes related to their interplay or a comparative study of different fuel cell technologies to provide insight into the implementation of high-performance and long-durability anion exchange membrane fuel cells and related applications at large scale and low cost.

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Message from the Editor-in-Chief

You are cordially invited to contribute a research article or a comprehensive review for consideration and publication in *Membranes* (ISSN 2077-0375).

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