

Anion Exchange Membrane Fuel Cells and Electrolyzers

Guest Editor:

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Deadline for manuscript submissions:

closed (31 December 2020)

Message from the Guest Editor

Dear Colleagues,

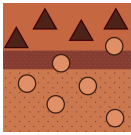
Membranes used for anion exchange membrane (AEM) fuel cells and electrolyzers are the focus of renewed attention due to their use in non-platinum group metal (PGM) catalysts with lower cost compared to other fuel cells and electrolyzers. For AEMs to become viable options, cathode ionomer stability and anode catalyst activity must be investigated. Low-cost material solutions to address current issues to develop complete gas diffusion electrode (GDEs) are desired. These solutions aim to be at the cutting edge of advanced materials research and are foreseen to contribute to breakthrough advances for AEM fuel cells and electrolyzers.

This Special Issue seeks contributions to assess the state of the art and future developments in the field of AEMFCs. Topics include, but are not limited to, anion exchange membrane synthesis, non-PGM catalysts for gas diffusion electrode production, mass transport phenomena, module and reactor design, membrane reactors, novel applications, and demonstration efforts and industrial exploitation. Authors are invited to submit their latest results; both original papers and reviews are welcome.

Prof. Dr. Hsiharng Yang

Guest Editor





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Message from the Editor-in-Chief

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