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Representative Model and Flow Characteristics of Fuel Cells

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Message from the Guest Editors

Dear Colleagues,

Fuel cells (FCs) play an important role in the development of green energy, and have drawn much attention during the past decade. They have been widely employed as power sources for electric vehicles, unmanned aerial vehicles, underwater vehicles, and other power generation systems. Recently, FC research has focused on cost reduction and durability improvement to enhance FC commercialization. The cost and performance of FCs are influenced by many factors, including materials of key components, structures of membrane electrode assemblies, manufacturing processes, and operating conditions. How these factors influence the electrochemical reaction within the FC is an interesting and essential topic for the development of FCs.

This special Issue aims to showcase recent progress and breakthroughs in the cost reduction and performance improvement of FCs, including both high- and low-temperature FCs. For this special Issue, we welcome and encourage contributions covering representative models or experimental studies that can capture flow characteristics, catalytic activity, gas management, energy efficiency, and degradation mechanisms.

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Message from the Editor-in-Chief

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