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Representative Model and Flow Characteristics of Fuel Cells

Guest Editors:

Prof. Dr. Yong-Song Chen

Department of Mechanical Engineering, National Chung Cheng University, Chiayi 62102, Taiwan

Dr. Amornchai Arpornwichanop

Center of Excellence in Process and Energy Systems Engineering, Department of Chemical Engineering, Faculty of Engineering, Chulalongkorn University, Bangkok 10330, Thailand

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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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Editor-in-Chief

Prof. Dr. Giancarlo Cravotto

Department of Drug Science and Technology, University of Turin, Via P. Giuria 9, 10125 Turin, Italy

Message from the Editor-in-Chief

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