Special Issue

Fuel Cells and Hydrogen Economy

Message from the Guest Editors

Fuel cells are the most efficient and environmentally friendly means of converting chemical energy from hydrogen or hydrogen-rich fuels into electricity. Owing to their modular construction, fuel cells can be built to any size, ranging from a few watts to multiple megawatts. The scalability of fuel cells makes them ideal candidates for a wide range of applications, including portable electronic devices, transportation, and stationary power generation. Some of the obstacles to the quick adoption of fuel cell technology have been the cost and limited availability of hydrogen. However, these obstacles are being gradually overcome with the growing production of hydrogen from renewable energy sources such as solar and wind. The concept of a hydrogen economy, where hydrogen is used as the main energy carrier in various sectors and fuel cells are used to generate clean electricity from hydrogen, is, thus, becoming more realistic. Advancements in fuel cells and in hydrogen production and storage technologies will play key roles in the successful transition to a sustainable hydrogen economy.

Guest Editors

Dr. Dhruba Panthi

Department of Engineering Technology, Kent State University Tuscarawas, New Philadelphia, Ohio 44663, USA

Dr. Mohd Hafiz Dzarfan Othman

Advanced Membrane Technology Research Center (AMTEC), School of Chemical and Energy Engineering, Universiti Teknologi Malaysia, 81310 UTM Johor Bahru, Johor, Malaysia

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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
sustainability@mdpi.com

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Editor-in-Chief

Prof. Dr. Marc A. Rosen
Faculty of Engineering and Applied Science, University of Ontario Institute of Technology, Oshawa, ON L1G 0C5, Canada

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