



Fuel Cells and Hydrogen Economy

Guest Editors:

Dr. Dhruba Panthi

Department of Engineering
Technology, Kent State
University Tuscarawas, New
Philadelphia, Ohio 44663, USA
dpanthi@kent.edu

**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
hafiz@petroleum.utm.my

Deadline for manuscript
submissions:

31 October 2021

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.





an Open Access Journal by MDPI

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

Message from the Editor-in-Chief

I encourage you to contribute a research or comprehensive review article for consideration for publication in *Sustainability*, an international Open Access journal which provides an advanced forum for research findings in areas related to sustainability and sustainable development. The journal publishes original research articles, reviews, conference proceedings (peer-reviewed full articles) and communications. I am confident you will find the journal contributes to enhancing understanding of sustainability and fostering initiatives and applications of sustainability-based measures and activities.

Author Benefits

Open Access:— free for readers, with [article processing charges \(APC\)](#) paid by authors or their institutions.

High visibility: indexed within [Scopus](#), [SCIE](#) and [SSCI \(Web of Science\)](#), [GEOBASE](#), [Inspec](#), [AGRIS](#), [RePEc](#), [CAPlus / SciFinder](#), and many [other databases](#).

Journal Rank: [JCR](#) - Q2 (*Environmental Sciences*) / [CiteScore](#) - Q1 (*Geography, Planning and Development*)

Contact Us

Sustainability
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
Fax: +41 61 302 89 18
www.mdpi.com

mdpi.com/journal/sustainability
sustainability@mdpi.com
[@Sus_MDPI](https://twitter.com/Sus_MDPI)