



New Technology and Application of Hydrogen Production, Storage Conversion and Fuel Cell

Guest Editors:

Dr. Andrew C Chien

Department of Chemical
Engineering, Feng Chia
University, Taichung 40724,
Taiwan

Prof. Dr. Yuwen Chen

Department of Chemical and
Materials Engineering, National
Central University, Jhongli 32001,
Taiwan

Prof. Dr. Chi-Jung Chang

Department of Chemical
Engineering, Feng Chia
University, 100, Wenhwa Road,
Seatwen, Taichung 40724,
Taiwan

Deadline for manuscript
submissions:

closed (27 February 2024)

Message from the Guest Editors

The new technology and applications of hydrogen and fuel cells are vital for achieving a sustainable world society. The production of fossil fuels is expected to peak within the next few decades. Meanwhile, they carry a steep environmental cost to releasing twice as much carbon dioxide (CO₂) compared to natural gas. The transition of energy from fossil fuels to hydrogen is a daunting challenge that not only requires great scientific knowledge but also technical support covering the production, storage, conversion, and supply of hydrogen. On the other hand, fuel cells are regarded as highly effective for the conversion of hydrogen due to their environmentally clean method of energy production and higher efficiency than conventional counterparts.

The aim of this Special Issue is to present research on the state-of-the-art technology of hydrogen fuel cells and their application by collating high-quality research articles and reviews on various aspects of hydrogen. Topics include, but are not limited to, hydrogen storage, hydrogen production, hydrogen conversion and supply, all kinds of fuel cells, and novel materials/catalysts with relevant applications.





an Open Access Journal by MDPI

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

You are invited to contribute either a research article or a comprehensive review for consideration and publication in *Processes* (ISSN 2227-9717). *Processes* is published in open access format – research articles, reviews, and other content are released on the internet immediately after acceptance. The scientific community and the general public have unlimited, free access to the content. As an open access journal, *Processes* is supported by the authors and their institutes through the payment of article processing charges (APCs) for accepted papers. We would be pleased to welcome you as one of our authors.

Author Benefits

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

High Visibility: indexed within Scopus, SCIE (Web of Science), Ei Compendex, Inspec, AGRIS, and other databases.

Journal Rank: CiteScore - Q2 (Chemical Engineering (miscellaneous))

Contact Us

Processes Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/processes
processes@mdpi.com
[X@Processes_MDPI](https://twitter.com/Processes_MDPI)