Special Issue

Diversified Technologies Based on Hydrogen Energy: Mechanical, Thermal, Chemical, Biological, and/or Electrochemical Processes

Message from the Guest Editor

Hydrogen is a crucial fuel for the production of electricity and heat in hydrogen economy. The depletion of fossil fuels and the acceleration of climate change drive us to change fossil-fueled technologies into hydrogen-fueled ones. Hydrogen is mainly supplied to processes for the production of ammonia, methanol and petroleum refining. Recently, fast-growing technologies for the use of hydrogen such as fuel cells and industrial areas for the use of hydrogen are shifting from chemical to energy production. Most R&D activities for hydrogen-related technologies are significantly focusing on water electrolysis and fuel cells as hydrogen production and use technology, respectively. However, many conventional and other emerging technologies are related to hydrogen production, storage, distribution, and utilization. This Special Issue aims to provide the hydrogen-related technologies dealing with original analytical and experimental research on all aspects of hydrogen raised by scientists and engineers. All types of submissions including reviews, communications, and full research articles are welcome.

Guest Editor

Prof. Dr. Jin-Soo Park
Department of Green Chemical Engineering, College of Engineering, Sangmyung University, Cheonan 31066, Republic of Korea

Deadline for manuscript submissions

closed (30 June 2022)

Energies

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 7.3

mdpi.com/si/58298

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

mdpi.com/journal/energies

Energies

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 7.3

mdpi.com/journal/energies

About the Journal

Message from the Editor-in-Chief

Energies is an international, open access journal in energy engineering and research. The journal publishes original papers, review articles, technical notes, and letters. Authors are encouraged to submit manuscripts which bridge the gaps between research, development and implementation. The journal provides a forum for information on research, innovation, and demonstration in the areas of energy conversion and conservation, the optimal use of energy resources, optimization of energy processes, mitigation of environmental pollutants, and sustainable energy systems.

Editor-in-Chief

Prof. Dr. Enrico Sciubba
Department of Mechanical and Industrial Engineering, University Niccolò Cusano, 00166 Roma, Italy

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, RePEc, Inspec, CAPlus / SciFinder, and other databases.

Journal Rank:

CiteScore - Q1 (Control and Optimization)