



*energies*



an Open Access Journal by MDPI

## Micro-Turbines for Hydrogen Fuels

Guest Editor:

**Prof. Dr. Hamidreza Gohari Darabkhani**

Department of Engineering,  
School of Digital, Technologies  
and Arts (DTA), Staffordshire  
University, Stoke-on-Trent ST4  
2DE, UK

Deadline for manuscript  
submissions:

**closed (10 December 2021)**

### Message from the Guest Editor

Dear Colleagues,

This Special Issue aims to publish the latest research works on the introduction of clean hydrogen fuel into the microturbine industry, which will ultimately contribute to the penetration of hydrogen in the global economy.

The Special Issue invites important and original research work on micro-turbines for hydrogen fuels that include feasibility analysis, process simulation, engineering design, combustion CFD modelling and optimization, and combustion experimentation for the development of hydrogen-fueled micro gas turbines (MGT). The issue will cover design, optimization, and application of novel fuel-flexible combustion systems to adapt to the use of renewable/alternative clean fuels, and to effectively optimize the microturbine energy gensets. Contributions focused on hybrid micro gas turbine and fuel cell power generation with hydrogen production and CO<sub>2</sub> capture are also of interest for publication in this Special Issue.

Prof. Hamidreza Gohari Darabkhani  
*Guest Editor*



[mdpi.com/si/69213](https://mdpi.com/si/69213)

# Special Issue



# energies



an Open Access Journal by MDPI

## Editor-in-Chief

### **Prof. Dr. Enrico Sciubba**

Department of Mechanical and  
Aerospace Engineering,  
University of Roma Sapienza, Via  
Eudossiana 18, 00184 Roma, Italy

## 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.

## 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 (*Engineering (miscellaneous)*)

## Contact Us

---

*Energies* Editorial Office  
MDPI, St. Alban-Anlage 66  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/energies](http://mdpi.com/journal/energies)  
[energies@mdpi.com](mailto:energies@mdpi.com)  
[X@energies\\_mdpi](https://twitter.com/energies_mdpi)