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## Hydrogen Potential: From Fundamentals to Applications

Guest Editors:

### **Dr. Elena Carcadea**

ICSI Energy Department, National  
Research and Development  
Institute for Cryogenics and  
Isotopic Technologies, 240050  
Ramnicu Valcea, Romania

[elena.carcadea@icsi.ro](mailto:elena.carcadea@icsi.ro)

### **Dr. Adriana Marinoiu**

ICSI Energy Department, National  
Research and Development  
Institute for Cryogenics and  
Isotopic Technologies, 240050  
Ramnicu Valcea, Romania

[Adriana.Marinoiu@icsi.ro](mailto:Adriana.Marinoiu@icsi.ro)

### **Dr. Maria Simona Raboaca**

ICSI Energy Department, National  
Research and Development  
Institute for Cryogenics and  
Isotopic Technologies, 240050  
Ramnicu Valcea, Romania

[simona.raboaca@icsi.ro](mailto:simona.raboaca@icsi.ro)

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### **Message from the Guest Editors**

Dear Colleagues,

Hydrogen is a flexible energy "vector" with potential applications between various energy sectors. It can be easily stored in large quantities over long periods of time and re-transformed into electricity ("power-to-power"), it can be mixed into natural gas network, converted to synthetic methane ("power-to-gas") or supplied as fuel for fuel cell electric vehicles ("power-to-fuel"). In this way, hydrogen opens up multiple opportunities. The use and implementation of hydrogen-based energy technologies are directly related to the development of electrolyzers and hydrogen fuel cells.

The Special Issue is open for articles that address topics related to fuel cells and electrolyzers (both polymer electrolyte membrane), ranging from electrochemistry fundamentals to systems operation. Recent advances in catalytic materials, fuel cell components, single-cells/stacks and system development, as well as recently developed fuel cell diagnosis, power processing and control, characterization of MEA in operation/aging could be also addressed. Furthermore, topics related to the entire hydrogen chain from production, distribution, storage and use are expected.



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# Special Issue



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## 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.

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

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