

## Special Issue

# Advances in Hybrid Energy Systems and Their Control for Greener Transportation

### Message from the Guest Editors

This Special issue aims to present the latest research about the design, modeling, optimization, environmental and techno-economic assessment of hybrid energy systems, as well as recommendations for future work and research directions for optimal hybrid energy system performance and commercialization. The topics of interest include, but are not limited to, the following:

- Design, system engineering, and field applications of hybrid energy systems;
- Modeling, simulation, testing, and verification of hybrid energy systems;
- Performance and control of hybrid energy systems;
- Ageing modeling and lifetime prediction;
- Solid-state battery technology;
- Hydrogen fuel cell technology;
- Fuel cell hybrid electrical vehicle;
- Alternative fuels and their technology;
- Machine learning, big data, and cloud computing in hybrid energy systems applications;
- Real-time energy management and predictive optimization methodologies;
- Monitoring and predictive maintenance of hybrid energy systems;
- Techno-economic and environmental assessment of hybrid energy systems;
- Advances in hybrid energy technologies.

### Guest Editors

Prof. Dr. Gojmir Radica

Faculty of Electrical Engineering, Mechanical Engineering and Naval Architecture, University of Split, Rudjera Boškovića 32, 21000 Split, Croatia

Dr. Željko Penga

Faculty of Electrical Engineering, Mechanical Engineering and Naval Architecture, University of Split, Rudjera Boškovića 32, 21000 Split, Croatia

### Deadline for manuscript submissions

closed (15 February 2025)



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*Energies*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[energies@mdpi.com](mailto:energies@mdpi.com)

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## 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.

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### Editor-in-Chief

Prof. Dr. Enrico Sciubba

Department of Mechanical and Industrial Engineering, University  
Niccolò Cusano, 00166 Roma, Italy

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