

Special Issue

Microgrids Integrating Renewable Energy Sources, Fuel Cells and Plug-In Hybrid Electric Vehicles

Message from the Guest Editors

Generation and management of distributed electricity using Fuel Cell (FC) / Renewable Microgrids integrating FC / Electric Hybrid Vehicles represents a challenging and feasible opportunity for the next decade to reduce CO₂ emissions if the potential of hydrogen and renewable energy are used effectively using advanced Control Techniques and Energy Management Strategies. Thus, a limitation of global warming to 2 °C can be achieved by replacing fossil fuels with hydrogen-based energy and renewable sources. In this Special Issue, entitled “Control Techniques and Energy Management Strategies for Fuel Cell (FC) / Renewable Microgrids integrating FC / Electric Hybrid Vehicles”, the latest proposals and paradigms based on by the keywords below related to hybrid microgrid integrating FC / Electric Hybrid Vehicles will be collected. The present Special Issue aims to include innovative Control Techniques and Energy Management Strategies for power converters and experimental research in FC / Renewable Microgrids supported by appropriate modeling and design.

Guest Editors

Prof. Dr. Nicu Bizon

Faculty of Electronics, Communication and Computers, University of Pitesti, 110040 Pitesti, Romania

Prof. Dr. Mihai Oproescu

Faculty of Electronics, Communication and Computers, University of Pitesti, 110040 Pitesti, Romania

Deadline for manuscript submissions

closed (30 September 2022)



Electronics

an Open Access Journal
by MDPI

Impact Factor 2.6
CiteScore 5.3



mdpi.com/si/77981

Electronics

MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
electronics@mdpi.com

[mdpi.com/journal/
electronics](https://mdpi.com/journal/electronics)





Electronics

an Open Access Journal
by MDPI

Impact Factor 2.6
CiteScore 5.3



[mdpi.com/journal/
electronics](https://mdpi.com/journal/electronics)



About the Journal

Message from the Editor-in-Chief

Electronics is a multidisciplinary journal designed to appeal to a diverse audience of research scientists, practitioners, and developers in academia and industry. The journal is devoted to fast publication of latest technological breakthroughs, cutting-edge developments, and timely reviews of current and emerging technologies related to the broad field of electronics. Experimental and theoretical results are published as regular peer-reviewed articles or as articles within Special Issues guest-edited by leading experts in selected topics of interest.

Editor-in-Chief

Prof. Dr. Flavio Canavero

Department of Electronics and Telecommunications, Politecnico di
Torino, 10129 Torino, Italy

Author Benefits

High Visibility:

indexed within Scopus, SCIE (Web of Science), CAPlus /
SciFinder, Inspec, Ei Compendex and other databases.

Journal Rank:

JCR - Q2 (Physics, Applied) / CiteScore - Q2 (Control and
Systems Engineering)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is
provided to authors approximately 16.4 days after
submission; acceptance to publication is undertaken in 2.4
days (median values for papers published in this journal in
the second half of 2024).