

Special Issue

Emerging Renewable Energy Integration Technologies in Power Systems

Message from the Guest Editors

This Special Issue will deal with all issues related to the integration of a large share of renewables into the power system, including wind, solar, hydropower, geothermal, biomass, wood and wood waste, biogas, and green hydrogen. The focus is on technologies which allow a cost-effective integration of renewables while guaranteeing a reliable and safe system operation, ensuring system stability and power quality. The Issue also welcomes review papers which analyze the national policies determining an increased integration of renewable sources in EU countries and the pathways leading to the decarbonization of society using renewables. Topics addressed in this Special Issue include, but are not limited to, the following:

- Voltage and frequency stability in the presence of an increasing share of renewables;
- Power quality issues;
- Services-based energy storage systems for renewable integration, renewable firming, energy arbitrage, ancillary services;
- Flexible demand integration in future power systems based on batteries and electrolyzers for green hydrogen production.

https://www.mdpi.com/journal/electronics/special_issues/Renewable_Energy_Integration

Guest Editors

Dr. Luciano De Tommasi

International Energy Research Centre, Tyndall National Institute, University College Cork, T12 E138 Cork, Ireland

Dr. Conor Lynch

Nimbus Research Centre, Munster Technological University, T12 Y275 Cork, Ireland

Deadline for manuscript submissions

closed (15 April 2023)



Electronics

an Open Access Journal
by MDPI

Impact Factor 2.6
CiteScore 5.3



[mdpi.com/si/126752](https://www.mdpi.com/si/126752)

Electronics

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

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