

Special Issue

Grid Influence by Increasing the Penetration of Renewable Energy Based on Power Electronics

Message from the Guest Editors

Prospective authors are invited to submit original contributions for publication in this Special Issue. Topics of interest include, but are not limited to:

- Supplementary control design of renewable energy in grid operation, support, and management;
- Power electronics combined models and solutions including storage devices;
- Frequency and voltage regulation in large-scale renewable farms;
- HVDC composition and operation for large-scale renewable energy;
- Frequency control of grid with high penetration of renewable generation systems;
- Hardware-in-the-loop methodology for performance evaluation;
- Smart communication integrated with power converters for control design of renewable energy in grid operation, support, and management;
- Power quality issues on grids with high penetration of power conversion systems;
- Monitoring, management and communication devices and architectures for distributed generation and storage system integration in smart grid framework.

Guest Editors

Dr. Seungmin Jung

Dr. Giambattista Gruosso

Prof. Dr. Tarlochan Sidhu

Dr. Dario Di Cara

Deadline for manuscript submissions

closed (15 May 2022)



Electronics

an Open Access Journal
by MDPI

Impact Factor 2.6
CiteScore 6.1



mdpi.com/si/95032

Electronics
Editorial Office
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 6.1



[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 guestedited 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), CAPus /
SciFinder, Inspec, Ei Compendex and other databases.

Journal Rank:

JCR - Q2 (Engineering, Electrical and Electronic) /
CiteScore - Q1 (Electrical and Electronic Engineering)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is
provided to authors approximately 16.8 days after
submission; acceptance to publication is undertaken in 2.4
days (median values for papers published in this journal in
the first half of 2025).