

## 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](https://mdpi.com/si/95032)

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