

## Special Issue

# Power Electronics and Renewable Energy System

### Message from the Guest Editor

At present, we must construct a sustainable global energy system to stop climate change. In this sense, the electricity and transport sectors play an important role. The transition towards an renewable energies and the progressive implementation of electric vehicles are necessary. The topics to be addressed in the Special Issue include (but are not limited to):

- Power electronics in renewable energy sources.
- Power flow control and optimization.
- Electrical energy efficiency in industry, buildings, transmission and distribution, etc.
- Modeling, simulation and control of power electronic converters.
- Analysis of the uncertainty generated by renewable sources and electric vehicles.
- High/Medium-voltage DC systems.
- Grid planning with large-scale renewable energy resources.
- Renewable energy conversion systems: design, modelling, control and integration to modern power systems.
- Power and energy quality in electric systems with renewable energy resources.
- Power electronics and control in microgrids.

### Guest Editor

Dr. Francisco Javier Ruiz-Rodríguez

Department of Electrical and Thermal Engineering. Higher Technical School of Engineering, University of Huelva, Avda. Fuerzas Armadas, s/n, 21007 Huelva, Spain

### Deadline for manuscript submissions

closed (30 September 2025)



## Electronics

an Open Access Journal  
by MDPI

Impact Factor 2.6  
CiteScore 6.1



[mdpi.com/si/172884](https://mdpi.com/si/172884)

*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 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), 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 16.4 days after  
submission; acceptance to publication is undertaken in 2.6  
days (median values for papers published in this journal in  
the second half of 2025).