

## Special Issue

# Management and Supervision of Photovoltaic Rooftops

### Message from the Guest Editors

Energy systems should meet the objectives of sustainable development, which are based on three pillars: economic development, environmental management and social equity. Fossil fuels should be gradually substituted for renewable energy sources and promote self-consumption where photovoltaics may take a prominent role. However, electricity generated from this type of source does not always provide an immediate response to demand due to the fluctuating nature of photovoltaics. Many challenges may be faced from a technical perspective in order to develop smart grid technology through intelligent load management, power electronic converters for the interconnection to the grid, power quality, the incorporation of electric vehicles, as well as the use of energy storage systems. This Special Issue aims to explore different issues related to the grid integration of photovoltaic systems. Moreover, it will analyze the advances in smart microgrids, incorporating new technologies that can improve power quality (such as voltage stability, frequency stability, and harmonic distortion) of the grid.

### Guest Editors

Prof. Dr. Catalina Rus-Casas

Prof. Dr. Francisco José Muñoz-Rodríguez

Dr. Gabino Jiménez Castillo

### Deadline for manuscript submissions

closed (26 January 2024)



## Electronics

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.6  
CiteScore 6.1



[mdpi.com/si/122150](https://mdpi.com/si/122150)

*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).