

## Special Issue

# Electronic Devices Supporting the Holistic Approach of Energy Efficiency of Current Technologies

### Message from the Guest Editors

Despite the proposal of new technologies in many areas, technologies that have been known of for many years are still being used. The energy efficiency of newly designed devices can be improved using the latest solutions. The focus of this Special Issue is not only on the improvement of power supply and power control systems but also the support of energy management techniques. Successful overall designs include installing a wide range of energy-saving technologies as well as adopting behavioral changes to improve energy consumption. This applies to sensory systems and model-based algorithms to optimize power supply systems and power control by identifying needs and behaviors that affect energy management and, also, machine-learning methods for accurately predicting energy consumption for optimal decision-making.

### Guest Editors

Prof. Dr. Dariusz Choiński  
Prof. Dr. Amin Hajizadeh  
Prof. Helcio R B Orlande

### Deadline for manuscript submissions

closed (30 November 2022)



## Electronics

an Open Access Journal  
by MDPI

Impact Factor 2.6  
CiteScore 6.1



[mdpi.com/si/76250](https://mdpi.com/si/76250)

*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).