

## Special Issue

# Radiation Tolerant Digital and Analog Circuits and Systems

### Message from the Guest Editors

The main aim of this Special Issue is to seek high-quality submissions that highlight emerging applications of radiation-tolerant systems, address recent breakthroughs in modeling radiation effects in advanced electronic devices and circuits, present designs of radiation-hardened digital, analog, mixed-signal, and RF integrated circuits, and radiation hardness testing methodologies. The topics of interest include, but are not limited to:

- Basic mechanisms of radiation effects in electronic devices;
- Compact modeling of radiation effects and circuit/layout level optimization (TID and SEE);
- Radiation effects in power devices/circuits;
- Design of radiation-hardened integrated circuits (analog/RF/mixed-signal/digital);
- Radiation hardening and fault tolerance in FPGAs;
- Radiation hardness assurance testing.

---

### Guest Editors

Prof. Dr. Li Chen

Prof. Dr. Haibin Wang

Dr. Kai Xi

Dr. Liang Wang

Dr. Rui Chen

---

### Deadline for manuscript submissions

closed (20 September 2023)



## Electronics

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.6  
CiteScore 6.1



[mdpi.com/si/149781](https://mdpi.com/si/149781)

*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).