



## The Progress in Application-Specific Integrated Circuit Design

Guest Editors:

**Prof. Dr. Chengxin Zhao**

1. University of Chinese Academy of Sciences, Beijing 100049, China

2. Institute of Modern Physics, Chinese Academy of Sciences, Lanzhou 730000, China

**Dr. Yongsheng Wang**

School of Astronautics, Harbin Institute of Technology, Harbin 150001, China

**Dr. Xiaoyang Niu**

Institute of Modern Physics, Chinese Academy of Sciences, Lanzhou 730000, China

### Message from the Guest Editors

Dear Colleagues,

Application-Specific Integrated Circuits (ASICs) are custom-designed integrated circuits tailored to meet the needs of specific applications. They represent the cutting-edge applications of semiconductor technology. Optimized for particular tasks, ASICs can offer higher performance, lower power consumption, and cost-effectiveness while reducing the overall complexity of systems. This specialized nature makes ASICs crucial in critical areas such as high-performance computing, mobile communications, digital media, automotive electronics, and medical devices. ASICs are an indispensable part of modern electronic systems. They drive technological progress and greatly enrich and facilitate people's daily lives.

Deadline for manuscript submissions:

**15 February 2025**





an Open Access Journal by MDPI

## Editor-in-Chief

**Prof. Dr. Flavio Canavero**

Department of Electronics and  
Telecommunications,  
Politecnico di Torino, 10129  
Torino, Italy

## 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.

## Author Benefits

**Open Access:** free for readers, with article processing charges (APC) paid by authors or their institutions.

**High Visibility:** indexed within Scopus, SCIE (Web of Science), CAPlus / SciFinder, Inspec, Ei Compendex and other databases.

**Journal Rank:** JCR - Q2 (*Physics, Applied*) / CiteScore - Q2 (*Control and Systems Engineering*)

## Contact Us

---

Electronics Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/electronics](http://mdpi.com/journal/electronics)  
[electronics@mdpi.com](mailto:electronics@mdpi.com)  
[X@electronicsMDPI](https://x.com/electronicsMDPI)