Special Issue

Recent Advances in Semiconductor Devices and Materials

Message from the Guest Editors

Recent advances in semiconductor devices and materials have had a profound impact on various aspects of modern life, driving innovation and revolutionizing numerous industries. These advancements have been instrumental in the continuous improvement of electronic devices and computing technology, resulting in more powerful, energy-efficient, and compact devices. One significant impact has been witnessed in the field of computing. Semiconductor devices have also been pivotal in the growth of the telecommunications sector. The energy sector has also benefited from recent semiconductor advancements. Additionally, advances in semiconductor materials have opened up new possibilities in the field of sensors and actuators. In conclusion, this Special Issue is dedicated to recent advances in the field of semiconductor devices and materials. Keywords: MOS transistor; non-volatile memories; power devices; reliability; characterization; failure mechanisms; microwave devices; photonics; MEMS; energy efficiency

Guest Editors

Dr. Jérémy Postel-Pellerin

Prof. Dr. Pierre Canet

Dr. Jorge Daniel Aguirre-Morales

Deadline for manuscript submissions

closed (15 December 2024)



Electronics

an Open Access Journal by MDPI

Impact Factor 2.6 CiteScore 6.1



mdpi.com/si/184888

Electronics
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
electronics@mdpi.com

mdpi.com/journal/electronics





Electronics

an Open Access Journal by MDPI

Impact Factor 2.6 CiteScore 6.1



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).

