Special Issue

Advances in Semiconductor Devices and Applications

Message from the Guest Editors

The semiconductor industry is undergoing rapid changes driven by novel material and device technology, enabling significant improvements in device performance and developments in innovative applications. To answer the growing interest in semiconductor devices, this Special Issue aims to present up-to-date reports or reviews of advances in semiconductor devices and applications, including but not limited to the following topics:

- Wide bandgap/Ultrawide bandgap power electronics and applications.
- Infrared optoelectronic materials and devices.
- Energy harvesting materials and devices.
- Piezoelectric materials and devices.
- Microelectromechanical systems and applications.
- Photonic integrated devices, circuits, and applications.
- Electro-optical, thermo-optical, and non-linear properties of photonic devices and applications.
- Flexible electronics and applications.
- Semiconductor membrane-based devices.
- Low-dimensional semiconductor devices and applications.
- Semiconductor LEDs and lasers operate from visible to mid-infrared wavelengths.
- Semiconductor fabrication and device synthesis.
- Semiconductor device physics and modeling.

Guest Editors

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Deadline for manuscript submissions

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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

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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).

