Special Issue

Printed Electronics: Shaping the Future of Sensors with New Design and Fabrication Methods

Message from the Guest Editors

Recent advances in printed and flexible electronics are highlighting their ever-growing potential. One the one hand, large-scale and high-speed mass production can be achieved with printing techniques, thus contributing to the development of very low-cost, disposable sensors. On the other hand, combining new materials such as carbon nanocomposites, conductive polymers, insulators, and doped semiconductive inks with biocompatible, ceramic, plastic, and paper substrates can cover a wide area of applications. This Special Issue aims to collect recent research on printed electronics with emphasis on innovative devices. Original research articles and reviews are welcome. Research areas may include (but are not limited to) the following:

- Physical, chemical, optical, and mechanical sensors;
- Printed tags for security applications—physical unclonable functions;
- Biodegradable, implantable sensors and electrodes for biosensing;
- 2.5D/3D printed sensors;
- Micro-nano patterning techniques for printed sensors;
- Hybrid systems (combination of traditional and printed electronics);

We look forward to receiving your contributions.

Guest Editors

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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).

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