

Special Issue

Microelectronics in Korea - Emerging Electronic Components and Electronic Devices in Industrial 4.0 Era

Message from the Guest Editors

Industry 4.0 has already begun, encompassing an era of new materials and their applications in a variety of electronic systems. This Special Issue aims to provide a comprehensive collection of the state-of-the-art electronic components and devices in Korea. Full research, reviews and high-quality manuscripts addressing new electronic materials, components, devices and systems are welcome. Topics addressed in this Special Issue include the following (but are not limited to):

- Emerging memory devices;
- Electrical energy storage materials and devices;
- 2D materials and electronic devices;
- Micro- and nanodevices for the sensing applications;
- Energy saving, energy storage technologies;
- Battery materials and devices;
- Nanotechnology applications in electronic components;
- Nanomaterials for energy conversion;
- Nanotechnology in electronics;
- Nanocomposite dielectric materials;
- Super capacitors based on nanomaterials;
- Photovoltaics with nanomaterials aspects;
- Nanomaterial-based batteries;
- Nanomaterials for optoelectronic devices;
- Electrochemical capacitance.

https://www.mdpi.com/journal/electronics/special_issues/Korea_Microelectronics

Guest Editors

Prof. Dr. Jonghwa Eom
Prof. Dr. Ghulam Dastgeer
Prof. Dr. Muhammad Farooq Khan

Deadline for manuscript submissions

closed (15 September 2024)



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

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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 guestedited 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

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 16.4 days after submission; acceptance to publication is undertaken in 2.6 days (median values for papers published in this journal in the second half of 2025).