

Special Issue

Power Electronics and Sensors

Message from the Guest Editor

Power electronics process and control electric energy to be suitably used by user loads, and have diverse applications including smart grids, renewable energies, power supplies, motor drives, and electrified vehicles. In addition, recent power electronics vigorously investigate new devices (e.g., silicon carbide or gallium nitride power semiconductors), components (e.g., inductors, transformers, capacitors), and power module structures. Because of these reasons, the calibration and evaluation of power electronics are important, and their reliability and lifetime estimation are also inevitable. Thus, sensors for power electronics are becoming more crucial. Power electronics sensors need to characterize current, voltage, power, electromagnetics, temperature, thermal-stress, etc. In addition, depending on their applications, it is often necessary to customize their performances, such as bandwidth, accuracy, differential operation, or electrical isolation. Therefore, sensors used in power electronics should be developed considering their usages and specialized by their levels, e.g., power device, power module, and power-electronics system levels.

Guest Editor

Dr. Sang Won Yoon

Department of Automotive Engineering, Hanyang University, Seoul 04763, Korea

Deadline for manuscript submissions

closed (31 October 2020)



Micromachines

an Open Access Journal
by MDPI

Impact Factor 3.0
CiteScore 5.2
Indexed in PubMed



mdpi.com/si/33437

Micromachines
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
micromachines@mdpi.com

[mdpi.com/journal/
micromachines](https://mdpi.com/journal/micromachines)





Micromachines

an Open Access Journal
by MDPI

Impact Factor 3.0
CiteScore 5.2
Indexed in PubMed



[mdpi.com/journal/
micromachines](https://mdpi.com/journal/micromachines)



About the Journal

Message from the Editor-in-Chief

You are invited to contribute research articles or comprehensive reviews for consideration and publication in *Micromachines* (ISSN 2072-666X). *Micromachines* is published in the open access format. Research articles, reviews and other contents are released on the internet immediately after acceptance. The scientific community and the general public have unlimited free access to the content as soon as it is published. As an open access journal, *Micromachines* is supported by the authors or their institutes by payment of article processing charges (APC) for accepted papers. We are pleased to welcome you as our authors.

Editor-in-Chief

Prof. Dr. Ai-Qun Liu

1. Department of Electrical and Electronic Engineering, The Hong Kong Polytechnic University, Hong Kong, China

2. School of Electrical and Electronic Engineering, Nanyang Technological University, Singapore 639798, Singapore

Author Benefits

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, PMC, Ei Compendex, dblp, and other databases.

Journal Rank:

JCR - Q2 (Instruments and Instrumentation) / CiteScore - Q2 (Electrical and Electronic Engineering)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 16.2 days after submission; acceptance to publication is undertaken in 1.8 days (median values for papers published in this journal in the second half of 2024).