

Special Issue

Memristors – from Next Generation Devices to Unconventional and Bio-Inspired Circuits and Systems

Message from the Guest Editors

Memristors and memristive circuits are applied in various current research fields, including nonlinear circuits, neuroscience, security, next generation memory devices, to mention a few. This SI aims to compile the latest and most promising high-level research results. The topics of interest include, non-exhaustively: Memristor theory, modeling and simulation; Functional materials and novel memristive devices; Memristor-based circuits, systems, architectures and applications; Unconventional architectures including memristor-CMOS integration; Neuromorphic and bioinspired circuits and systems; Artificial Intelligence and Neural Networks; Memristive sensors; IoT and security applications; Nonlinear dynamics, chaos and complex networks

Guest Editors

Dr. Stavros G. Stavrinos

Prof. Dr. Rodrigo Picos

Prof. Dr. Ronald Tetzlaff

Prof. Leon O. Chua

Deadline for manuscript submissions

closed (31 October 2021)



Micromachines

an Open Access Journal
by MDPI

Impact Factor 3.0
CiteScore 5.2
Indexed in PubMed



mdpi.com/si/64683

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 (Physics, Applied) / CiteScore - Q2 (Mechanical Engineering)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 17.7 days after submission; acceptance to publication is undertaken in 2.5 days (median values for papers published in this journal in the first half of 2024).