Special Issue

Functional Materials for Energy and Electronic Applications

Message from the Guest Editor

The leading driving force of the new era includes (1) Biotechnology, medical technology, genomics, and synthetic biology, (2) Quantum information science and technology, (3) Advanced energy and industrial efficiency technologies, (4) High-performance computing, semiconductors, and advanced computer hardware and software based on the Chips and Science Act of 2022. Diverse functional materials have been developed, including synthetic, bio-, and/or bio-synthetic materials to advance these fields. This Special Issue on "Functional Materials for Energy and Electronic Applications" will offer a guide for researchers in the energy and electronic fields based upon functional materials. Functional materials of interest include organic, inorganic, and organic–inorganic hybrids. Manuscripts related to functional synthetic, bio-, and bio-synthetic materials for energy and electronics are also welcome. Topics of interest include, but are not limited to, the following:

- Metal-ion batteries;
- Zinc-ion batteries;
- Li-ion batteries;
- All solid-state batteries;
- Hydrogen productions;
- Wearable sensors;
- Neuromorphic computing;
- Multi-valued logic system;
- Memristors.

Guest Editor

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Deadline for manuscript submissions

31 October 2026

Micromachines

an Open Access Journal by MDPI

Impact Factor 3.0
CiteScore 6.0
Indexed in PubMed

mdpi.com/si/247882

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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

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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 1.9 days (median values for papers published in this journal in the second half of 2025).

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