Special Issue

State of the Art in Perovskite Solar Cells

Message from the Guest Editor

Perovskite solar cells (PSCs) have received significant attention in recent years due to their facile fabrication and remarkable optoelectronic properties, leading to rapid advancements in this field. Over the past decade, the power conversion efficiency (PCE) of PSCs has surged from an initial 3.8% to over 25%. Researchers have therefore studied various device structures, perovskite compositions, film deposition techniques, and underlying mechanisms. This Special Issue of *Micromachines*, entitled "State of the Art in Perovskite Solar Cells", provides a platform for the dissemination of significant research achievements. We welcome the submission of original research articles, review papers, communications, and perspectives that focus on the latest developments in perovskite solar cells (PSCs) with various structures. The scope of this Special Issue includes, but is not limited to, the following topics:

- Multi-junction solar cells;
- Inorganic perovskites;
- Hybrid organic–inorganic perovskites;
- Two-dimensional perovskite solar cells;
- Lead-free perovskite solar cells;
- Tandem perovskite solar cells;
- Perovskite solar cells with nanocrystals.

Guest Editor

Dr. Jinfei Dai

1. Key Laboratory for Physical Electronics and Devices of the Ministry of Education, School of Electronic Science and Engineering, Xi'an Jiaotong University, Xi'an 710049, China
2. Shaanxi Key Lab of Information Photonic Technique, School of Electronic Science and Engineering, Xi'an Jiaotong University, Xi'an 710049, China

Deadline for manuscript submissions

31 October 2025

Micromachines

an Open Access Journal by MDPI

Impact Factor 3.0
CiteScore 6.0
Indexed in PubMed

mdpi.com/si/233038

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

mdpi.com/journal/micromachines

Micromachines

an Open Access Journal by MDPI

Impact Factor 3.0
CiteScore 6.0
Indexed in PubMed

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 - Q1 (Mechanical Engineering)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 17.2 days after submission; acceptance to publication is undertaken in 1.9 days (median values for papers published in this journal in the first half of 2025).

MDPI