



## Advanced Energy Materials for Flexible Perovskite Solar Cells

Guest Editor:

**Dr. Pingping Sun**

School of Chemistry and  
Chemical Engineering, Hainan  
University, Haikou, China

Deadline for manuscript  
submissions:

**20 October 2024**

### Message from the Guest Editor

Photovoltaic (PV) devices play a vital role in converting solar energy into electricity, offering a promising avenue for mitigating carbon emissions and addressing the escalating demand for energy consumption. Several PV technologies have helped to shape the environment of renewable sources of energy. Perovskite solar cells (PSCs) have emerged as particularly noteworthy contenders in this area. Therefore, the pursuit of highly efficient perovskite solar cells in response to pressing economic concerns has become paramount. Driven by their physicochemical properties, high power conversion efficiencies, flexibility, low manufacturing costs, and long-term stability, perovskite solar cells are considered to be one of the most promising photovoltaic technologies. This Special Issue aims to delve into the latest achievements in perovskite solar cells, covering novel materials, device structures, technologies, and characterization methods. This Special Issue aims to provide a comprehensive overview of both experimental and theoretical approaches, showcasing the cutting-edge developments in this field.





an Open Access Journal by MDPI

## Editor-in-Chief

### Prof. Dr. Maryam Tabrizian

1. Department of Biomedical Engineering, Faculty of Medicine and Health Sciences, McGill University, Montreal, QC H3A 2B6, Canada

2. Faculty of Dentistry and Oral Health Sciences, McGill University, 3640 Rue University, Montreal, QC H3A 0C7, Canada

## Message from the Editor-in-Chief

*Materials* (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

## Author Benefits

**Open Access:** free for readers, with article processing charges (APC) paid by authors or their institutions.

**High Visibility:** indexed within Scopus, SCIE (Web of Science), PubMed, PMC, Ei Compendex, CaPlus / SciFinder, Inspec, Astrophysics Data System, and other databases.

**Journal Rank:** JCR - Q1 (Metallurgy and Metallurgical Engineering) / CiteScore - Q2 (*Condensed Matter Physics*)

## Contact Us

Materials Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/materials](http://mdpi.com/journal/materials)  
[materials@mdpi.com](mailto:materials@mdpi.com)  
[X@Materials\\_Mdpi](https://twitter.com/Materials_Mdpi)