



## Recent Development and Advancement in Solar Cell Technologies for Sustainability

Guest Editors:

**Dr. Shubhranshu Bhandari**

**Dr. Anurag Roy**

**Dr. Katie Shanks**

**Dr. Yusuf Chanchangi**

**Prof. Dr. Senthilarasu Sundaram**

Deadline for manuscript  
submissions:

**closed (30 September 2023)**

### Message from the Guest Editors

Dear Colleagues,

The growing energy demand, steps toward carbon neutrality and the efforts to limit climate change have greatly motivated extensive research on sustainable solar cell technologies for power generation. Depending on the current global power demand, it is imperative to achieve efficient and cost-effective solar power generation systems in place of traditional fossil fuels.

The present Special Issue, titled ‘Recent Development and Advancement in Solar Cell Technologies for Sustainability’ aims to collect and find innovative solutions in both theoretical and experimental studies. Original research articles, communications and reviews are welcome. Topics of interest include, but are not limited to, the following:

1. Advanced synthesis and characterization of solar energy materials;
2. Efficiency and stability aspects of solar cells;
3. Solar cell fabrication technologies;
4. Theoretical modelling of emerging solar cell technologies;
5. New concepts in solar cells and cell materials;
6. Concentrated optical elements for solar cells;
7. Life cycle analysis for sustainable solutions;
8. Integrated solar cell technologies.





an Open Access Journal by MDPI

## Editor-in-Chief

### **Prof. Dr. Marc A. Rosen**

Faculty of Engineering and  
Applied Science, University of  
Ontario Institute of Technology,  
Oshawa, ON L1G 0C5, Canada

## Message from the Editor-in-Chief

I encourage you to contribute a research or comprehensive review article for consideration for publication in *Sustainability*, an international Open Access journal which provides an advanced forum for research findings in areas related to sustainability and sustainable development. *Sustainability* publishes original research articles, review articles and communications. I am confident you will find the journal contributes to enhancing understanding of sustainability and fostering initiatives and applications of sustainability-based measures and activities.

## Author Benefits

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

**High Visibility:** indexed within [Scopus](#), [SCIE](#) and [SSCI \(Web of Science\)](#), [GEOBASE](#), [GeoRef](#), [Inspec](#), [AGRIS](#), [RePEc](#), [CAPlus / SciFinder](#), and [other databases](#).

**Journal Rank:** JCR - Q2 (*Environmental Studies*) / CiteScore - Q1 (Geography, Planning and Development)

## Contact Us

---

*Sustainability* Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

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

[mdpi.com/journal/sustainability](http://mdpi.com/journal/sustainability)  
[sustainability@mdpi.com](mailto:sustainability@mdpi.com)  
[X@Sus\\_MDPI](https://twitter.com/Sus_MDPI)