

Special Issue

Mechanisms, Materials and Devices for Emerging Solar Photovoltaic and Lithium Battery Technologies

Message from the Guest Editors

Solar photovoltaics is one of the major solutions for minimizing the use of fossil fuels to solve pivotal energy and environmental issues. For this, it is necessary to ensure electricity generation from solar energy in a cheap but effective way, and it requires going beyond traditional and existing technologies. In order to further promote these photovoltaic characteristics and achieve industrial use of the emerging semiconductor materials, academic scholars and R&D teams need to put the focus on revealing mechanisms for performance improvement and degradation, designing new efficient architecture, enhancing device performance (including conversion efficiency and stability), as well as replacing expensive or highly toxic chemicals used in device fabrication. Special Issue provides a platform for researchers in the field of photovoltaic applications, including but not limited to organic solar cells, quantum dot solar cells, perovskite solar cells, dye-sensitized solar cells, etc. Papers published in this Special Issue describe original works, focusing on theoretical calculations, surface modifications, cost-efficient methods, and materials development.

Guest Editors

Dr. Qian Zhao

Prof. Dr. Feng Liu

Dr. Abhijit Hazarika

Deadline for manuscript submissions

closed (1 August 2023)



Sustainability

an Open Access Journal
by MDPI

Impact Factor 3.3
CiteScore 7.7



mdpi.com/si/121208

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

[mdpi.com/journal/
sustainability](https://mdpi.com/journal/sustainability)





Sustainability

an Open Access Journal
by MDPI

Impact Factor 3.3
CiteScore 7.7



[mdpi.com/journal/
sustainability](https://mdpi.com/journal/sustainability)



About the Journal

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.

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

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, RePEc, CAPIus / SciFinder, and other databases.

Journal Rank:

JCR - Q2 (Environmental Studies) / CiteScore - Q1
(Geography, Planning and Development)