



Solar as Renewable Energy Resources in Developing Countries

Guest Editors:

Prof. Dr. Shahrin bin Md. Ayob

Faculty of Electrical Engineering,
Universiti Teknologi Malaysia,
UTM Skudai, Johor 81310,
Malaysia

Dr. M Saad Bin Arif

Department of Electrical
Engineering, Aligarh Muslim
University, Aligarh 202002, UP,
India

Deadline for manuscript
submissions:

closed (31 July 2023)

Message from the Guest Editors

Dear Colleagues,

The advancement of technology for solar energy as a renewable energy supply has soared tremendously. Rigorous research in this area has been seen lately, especially in developing countries. Hence, this Special Issue intends to capture all recent prominent research that focuses on the use of solar energy as a renewable energy source. The topic will cover any research that supports the advancement of solar energy, i.e., materials, circuit topologies, and control strategies applied for circuit and system levels and related energy management. The topic of interest includes, but is not limited to, the following:

Solar cell material technology;

Theoretical modeling of DC and AC PV systems;

Power electronics circuit for solar energy harvesting;

Simulation and experimental performance;

PV energy storage systems;

Solar thermal power plants;

PV thermoelectric technology;

Grid-connected solar power plants;

Solar pond;

Agri-voltaic;

Underwater solar and its applications;

Environmental impact of solar;

Solar microgrids;



mdpi.com/si/142424

Special Issue



sustain



Solar for smart home;

Solar roofs and EV charging stations;

Solar for hydrogen production;

Solar for fuel production;

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

mdpi.com/journal/sustainability
sustainability@mdpi.com
[X@Sus_MDPI](#)