

Special Issue

Optimization and Application of Sustainable Distributed Power Generation

Message from the Guest Editors

The rise in global energy consumption, coupled with increasing environmental pollution, has accelerated the development of sustainable distributed power generation. Researchers have been conducting experimental and theoretical studies on various technologies, such as solar thermal collectors, photovoltaics, wind turbines, energy storage, and more. The intention of this Special Issue is to explore sustainable distributed power generation systems from multiple perspectives and aims to promote the advancement of distributed power generation systems. In this Special Issue, original research articles and reviews are welcome. Research areas may include (but are not limited to) the following:

New concepts and design of sustainable distributed power generation systems;
Innovative application of different renewable energy sources including energy storage;
Optimization of sustainable distributed power generation;
Techno-economic analysis of sustainable distributed power generation systems;
Sustainable distributed power generation for smart building and smart city applications.

We look forward to receiving your contributions.

Guest Editors

Dr. Jian Zhang

Resch School of Engineering, University of Wisconsin Green Bay, Green Bay, WI, USA

Dr. Yonghong Xu

Mechanical Electrical Engineering School, Beijing Information Science and Technology University, Beijing 100192, China

Deadline for manuscript submissions

31 January 2026



Sustainability

an Open Access Journal
by MDPI

Impact Factor 3.3
CiteScore 7.7



mdpi.com/si/210327

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)