

Special Issue

Frontier Technologies for the Utilization of Power Generation and Energy Sources

Message from the Guest Editors

A secure energy supply is crucial to maintaining various functionalities of power grids. The integration of more and more renewable energy sources is reshaping traditional power systems. This brings more challenges in utilizing power generation and energy sources for the future grid, and it is evident that existing technical solutions and industry practices will no longer be sustainable due to these rapid changes. Considering the growing interest in this area, this Special Issue aims to explore the current research progress on the utilization of power generation and energy sources in power systems. The targeted research will cover a broad spectrum of topics, such as distributed energy resources (DERs), energy storage systems, electric vehicles, energy solution for residential homes, smart/microgrids, energy market participation, and power electronic devices for DERs, etc. It is expected that academics, researchers, practitioners, market regulators, system operators, policymakers, and other energy stakeholders will benefit from these state-of-the-art research results.

Guest Editors

Dr. Li Li

Prof. Dr. Josep M. Guerrero

Prof. Dr. Farhad Shahnia

Deadline for manuscript submissions

closed (31 October 2022)



Sustainability

an Open Access Journal
by MDPI

Impact Factor 3.3
CiteScore 7.7



mdpi.com/si/77117

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)