

Special Issue

Advanced Control Strategies for Renewable Energy Systems and Sustainable Development

Message from the Guest Editors

In recent years, with the growth of population and industrialization, there has been increasing attention on renewable energy sources, which are unlimited in nature and eco-friendly. In addition, these sources are expected to play a significant role in the future energy industry, becoming the main alternative to, and reaching the level of, conventional fossil resources. This Special Issue aims to present recent advances related to the theory and control of all categories of renewable energy sources. Topics of interest for publication include, but are not limited to: Renewable energy systems; Back-to-back power converters; New efficient renewable energy technologies; Multi-level power converters for renewable energy sources; Modelling, control and nonlinear control of renewable energy sources; Fuzzy logic research; AI learning approaches; New control strategies for maximum power extraction; Adaptive power electronic control algorithms for the efficient operation of integrated renewable energy sources; Artificial intelligence control; Optimal power flow control; Practical implementation of control techniques; Grid-forming power electronics systems and future grid code requirements.

Guest Editors

Prof. Dr. Youssef Errami
Prof. Dr. Abdellatif Obbadi
Prof. Dr. Smail Sahnoun

Deadline for manuscript submissions

closed (30 September 2025)



Sustainability

an Open Access Journal
by MDPI

Impact Factor 3.3
CiteScore 7.7



mdpi.com/si/202113

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. The journal publishes original research articles, reviews, conference proceedings (peer reviewed full 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. Steve W. Lyon

School of Environment and Natural Resources, Ohio State University,
Columbus, OH 43210, USA

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, CAPlus / SciFinder, and other databases.

Journal Rank:

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