Special Issue

Advanced Inverter Technologies: Enhancing Efficiency in Power Conversion Systems

Message from the Guest Editors

The advancement of power converter technology is continuing, with new challenges and opportunities evolving, focusing specifically on advanced converter topologies, materials science, component design, system integration and control. The aim of this Special Issue is to provide a forum for researchers and practical engineers in the power electronic field to present, review and analyse the recent advancements in these aspects. Topics of interest for publication include, but are not limited to, the following:

- **Power Converter Topologies:**
- **Converter Design, Modelling, and Simulation:**
- **Control for Power Converters:**
- **Power Converter Systems for Renewable Sourced Generators:**
- **Power Electronics for E-Mobility and Propulsion Systems:**
- **Power Electronics in Transmission and Distribution Systems:**
- **Machine Drive Systems:**
- **Power Devices, Components and Packaging:**

Guest Editors

Dr. Li Zhang

School of Electronic and Electrical Engineering, University of Leeds, Leeds LS2 9JT, UK

Dr. Oghenewvogaga Oghorada

School of Electronic and Electrical Engineering, University of Leeds, Leeds LS2 9JT, UK

Deadline for manuscript submissions

10 November 2025

Energies

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 7.3

mdpi.com/si/240680

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

mdpi.com/journal/energies

Energies

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 7.3

mdpi.com/journal/energies

About the Journal

Message from the Editor-in-Chief

Energies is an international, open access journal in energy engineering and research. The journal publishes original papers, review articles, technical notes, and letters. Authors are encouraged to submit manuscripts which bridge the gaps between research, development and implementation. The journal provides a forum for information on research, innovation, and demonstration in the areas of energy conversion and conservation, the optimal use of energy resources, optimization of energy processes, mitigation of environmental pollutants, and sustainable energy systems.

Editor-in-Chief

Prof. Dr. Enrico Sciubba
Department of Mechanical and Industrial Engineering, University Niccolò Cusano, 00166 Roma, Italy

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), Ei Compendex, RePEc, Inspec, CAPlus / SciFinder, and other databases.

Journal Rank:

CiteScore - Q1 (Control and Optimization)