

Special Issue

New Trends for Green Energy in Power Conversion System

Message from the Guest Editors

The energy sector faces an increased demand from various stakeholders to decrease the economic and technical performances of renewable energy resources through decreasing the cost of renewables while simultaneously improving the adoption rate of renewable energy. In recent decades, an increased penetration has been noticed, and therefore, their related technologies have experienced rapid improvements to meet the technoeconomic issues of power markets. This SI aims to collect review and working articles from around the world which cover and illuminate the state of the art of development of renewable energy sources, energy conversion systems, and their recent technological spreads. Different types of renewable energy sources will be discussed. The scope of this SI is to cover recent developments in green energy and deal with the continuous technology advances in the domain of renewable energies and their penetration in electrical grids, including but not limited to :

- Renewable energy resources
- Smart grids and smart metering
- AC–DC grids
- Energy storage devices
- Applications of the Internet of Energy
- Optimal power flow

Guest Editors

Prof. Dr. Adel M. Sharaf

Sharaf Energy Systems, Inc., Fredericton, NB E3C 2P2, Canada

Prof. Dr. Ragab A. El-Sehiemy

Electrical Engineering Department, Faculty of Engineering, Kafrelsheikh University, Kafrelsheikh 33516, Egypt

Prof. Dr. Mohamed Talaat

1. Electrical Power and Machines Department, Faculty of Engineering, Zagazig University, Zagazig 44519, Egypt

2. Mechatronic Program, Faculty of Engineering and Technology
Egyptian Chinese University, Cairo 45413122, Egypt

Deadline for manuscript submissions

closed (31 December 2023)



Electronics

an Open Access Journal
by MDPI

Impact Factor 2.6
CiteScore 6.1



mdpi.com/si/133426

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

[mdpi.com/journal/
electronics](https://mdpi.com/journal/electronics)





Electronics

an Open Access Journal
by MDPI

Impact Factor 2.6
CiteScore 6.1



[mdpi.com/journal/
electronics](https://mdpi.com/journal/electronics)



About the Journal

Message from the Editor-in-Chief

Electronics is a multidisciplinary journal designed to appeal to a diverse audience of research scientists, practitioners, and developers in academia and industry. The journal is devoted to fast publication of latest technological breakthroughs, cutting-edge developments, and timely reviews of current and emerging technologies related to the broad field of electronics. Experimental and theoretical results are published as regular peer-reviewed articles or as articles within Special Issues guest-edited by leading experts in selected topics of interest.

Editor-in-Chief

Prof. Dr. Flavio Canavero

Department of Electronics and Telecommunications, Politecnico di
Torino, 10129 Torino, Italy

Author Benefits

High Visibility:

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

Journal Rank:

JCR - Q2 (Engineering, Electrical and Electronic) /
CiteScore - Q1 (Electrical and Electronic Engineering)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is
provided to authors approximately 16.8 days after
submission; acceptance to publication is undertaken in 2.4
days (median values for papers published in this journal in
the first half of 2025).