Special Issue

Advances in Permanent Magnet Motor and Motor Control

Message from the Guest Editors

Permanent magnet motors are extensively utilized in various fields, such as aerospace, new energy vehicle drives, robotics, and household appliances, due to their high power density, torque density, reliability, and efficiency. The increasing demands in application fields continuously drive the performance of permanent magnet motors to new levels. Consequently, research on the design and control of permanent magnet motors has become a hot topic in both academia and industry. This Special Issue aims to provide the latest and most innovative research on all theoretical and practical aspects of permanent magnet motors. Topics of interest for publication include, but are not limited to:

- Permanent Magnet Synchronous Motors;
- Flux Modulation Motors;
- Multiphase Permanent Magnet Motors;
- Permanent Magnet DC Motors;
- Superconducting Machine;
- High-Speed Motors;
- Special Machines;
- Sensorless Control;
- Model Predictive Control;
- Sliding Mode Control;
- Motion Control and Servo Systems;
- Reliability, Diagnostics, and Tolerance;
- Other Areas in Permanent Magnet Motors.

Guest Editors

Dr. Kai Liu

School of Electrical Engineering, Southeast University, Nanjing 210096, China

Dr. Haiwei Cai

School of Electrical Engineering, Southeast University, Nanjing 210096, China

Deadline for manuscript submissions

24 November 2025

Energies

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 7.3

mdpi.com/si/192565

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)

MDPI