Special Issue

Advanced Structures, Fault Diagnosis and Tolerant Control of Permanent Magnet Synchronous Motors: 2nd Edition

Message from the Guest Editors

The is inviting submissions to the 2nd Edition Special Issue of *Energies* on the subject area of "Advanced Structures, Fault Diagnosis and Tolerant Control of Permanent Magnet Synchronous Motors". This Special Issue will cover a wide range of emerging developments for rotational and linear PMSM systems, including innovative machine structures, fault diagnosis approaches, advanced control methods, etc. Moreover, air gap field modulation theory, winding theory and magnetic circuit are also interesting topics. All methodologies and techniques related to PMSMs and their controls are welcome. Keywords of this Special Issue:

- novel PMSM structures
- air gap filed modulation theory
- advanced PMSM control strategies
- electric machine theory and analysis methods
- servo motor
- high-precision control
- magnetic field modulation
- winding theory
- system-level optimization on drive systems
- innovative design methodology
- fault diagnosis
- tolerance algorithm
- linear PMSM technology

Guest Editors

Dr. Gan Zhang

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

Dr. Hao Hua

Department of Electrical Engineering, School of Electronic Information and Electrical Engineering, Shanghai Jiao Tong University, Shanghai 200240, China

Deadline for manuscript submissions

20 November 2025

Energies

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 7.3

mdpi.com/si/203320

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)