Special Issue

Innovations in Electric Motor Drives: Exploring the Future of High-Performance, Energy Efficiency and Reliability

Message from the Guest Editor

As industries worldwide accelerate toward electrification and sustainable technologies, advanced electric machine topologies and motor drives have remained as the core enabling technologies driving the advancements in new applications. Innovations in topologies including superconducting machines; materials and components, including the additive manufacturing of components, intelligent control techniques, and modulation strategies; motor-drive integration; and the application of machine learning and AI techniques in motor drives have seen significant progress over the past few decades. This Special Issue seeks to explore cutting-edge innovations and emerging trends that are shaping the future of electric machines and motor drives. Submissions that explore novel topologies, novel materials and manufacturing methods, advanced control strategies, modeling techniques, diagnostics, and the reliability of high-specific-power electric machines are particularly encouraged, with the aim of highlighting practical challenges and setting new directions for future developments in this rapidly evolving field.

Guest Editor

Dr. Emmanuel Agamloh

Department of Electrical and Computer Engineering, Baylor University, Waco, TX 76798, USA

Deadline for manuscript submissions

10 December 2025

Energies

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 7.3

mdpi.com/si/244826

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)