Special Issue

Electrical Machine Systems with High Efficiency, Reliability and Integration

Message from the Guest Editors

This Special Issue is dedicated to providing a platform for researchers to share their research and advancements in electrical machines and drives related to high efficiency, high reliability, and integrated machine drive systems, as well as to contribute to ongoing progress in this dynamic field. In this Special Issue, original research articles and reviews are welcome. Research areas may include (but are not limited to) the following:

- **Multi-phase electrical machines and drives;**
- **Fault diagnosis and fault-tolerant control of electrical machines and converters;**
- **Advanced linear motors and drives;**
- **High-speed electrical machines and drives;**
- **Non- or less permanent magnet machines;**
- **Sensorless control of electrical machines;**
- **High-power density motors and converters;**
- **Motor and drive integrated system;**
- **Loss modeling and high efficiency design of electrical machines and converters;**
- **High reliability topology, structure, and assembly of electrical machines;**
- **Multi-physics design of electrical machines;**
- **Artificial-intelligence-assisted design of electrical machines and drives.**

We look forward to hearing from you.

Guest Editors

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Dr. Chenwen Cheng
Dr. Yang Xiao

Deadline for manuscript submissions

closed (25 August 2025)

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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.

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