

## Special Issue

# Designs and Control of Electrical Machines and Drives

### Message from the Guest Editors

Advanced electrical machines and their systems are of great significance for achieving zero-carbon emission. This Special Issue is dedicated to providing a platform for researchers to share their research and advancements in the design and control of electrical machines and drives, as well as to contribute to ongoing progress in this dynamic field. In this Special Issue, original research articles and reviews are welcome. Topics of interest for publication include, but are not limited to, the following:

- Electrical machine topology innovation;
- Axial-flux electrical machines;
- Bearingless electrical machines;
- Thermal management and modeling;
- Loss and efficiency;
- Insulation and aging;
- Optimization design;
- Vibration and noise;
- Advanced materials;
- Applications of AI;
- Advanced control strategies of motor drives;
- Model predictive control;
- Sensorless control;
- Multi-phase electrical machines and drives;
- Fault diagnosis and fault tolerance.

### Guest Editors

Dr. Hengliang Zhang

Dr. Xiaofeng Zhu

Dr. Wentao Huang

Dr. Fengyu Zhang

### Deadline for manuscript submissions

29 August 2025



## Energies

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## 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.

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### Editor-in-Chief

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