

## Special Issue

# The Role of Power Converters and Electrical Machines in the Energy Transition

### Message from the Guest Editors

The next energy transition calls for a more electric world, thus posing new challenges to the research community in terms of achieving the goal of decarbonized power systems. In this context, innovative solutions for power converters, electrical machines, and drives are requested in several application fields: electric mobility, electrical power production from renewable energy sources, and aircraft and ship propulsion. This Special Issue serves to address the challenges and issues arising from energy transition, particularly by proposing new solutions for the design and control of power converters, electrical machines, and drives. Topics of interest for publication include but are not limited to:

- Electric drives for transportation;
- High-efficiency power converters for high-speed electric machines;
- Modeling and design of high specific power electric machines;
- Multiphase configurations of electric machines;
- Fault-tolerant electric drives;
- Control strategies for post-fault configurations in electric drives;
- Power systems for renewable energy resources;
- Energy storage systems.

### Guest Editors

Prof. Dr. Adolfo Dannier

Prof. Dr. Gianluca Brando

Dr. Marino Coppola

### Deadline for manuscript submissions

closed (30 November 2023)



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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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