

Special Issue

Optimization and Simulation of Permanent Magnet Motors

Message from the Guest Editors

Electric machines are the main workhorses of our modern world. Among them, permanent magnet (PM) machines have reserved a special place for applications where high efficiency combined with high torque density and reduced size and weight are important. High-performance applications often require the electric machine to fulfill several conflicting requirements, thus pushing its design electromagnetically, thermally, and mechanically to the edge of feasibility. In such cases, machine designers face a serious challenge and need to resort to reliable multiphysical models combined with mathematical optimization as an automated decision-making tool. This Special Issue focuses on simulation and optimization of permanent magnet machines used as a design tool.

Guest Editors

Prof. Dr. Damir Žarko

Department of Electric Machines, Drives and Automation, Faculty of Electrical Engineering and Computing, University of Zagreb, Unska 3, 10000 Zagreb, Croatia

Prof. Dr. Ayman EL-Refai

Department of Electrical and Computer Engineering, Marquette University, Milwaukee, WI 53233, USA

Deadline for manuscript submissions

closed (10 May 2022)



Energies

an Open Access Journal
by MDPI

Impact Factor 3.2
CiteScore 7.3



mdpi.com/si/66947

Energies
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
energies@mdpi.com

[mdpi.com/journal/
energies](https://mdpi.com/journal/energies)





Energies

an Open Access Journal
by MDPI

Impact Factor 3.2
CiteScore 7.3



[mdpi.com/journal/
energies](https://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)