Special Issue

Analysis and Design of High-Energy-Efficiency Permanent Magnet Machines

Message from the Guest Editors

With the increasing development of renewable energy conversion systems, electric vehicles, electrification transportation, electric ship propulsion, traditional motor energy-saving reconstruction, electric aircraft and aerospace, high-energy-efficiency permanent magnet (PM) machines have been in great demand and received increasing attention. In this context, high-energy-efficiency PM machines, such as field-modulation PM machines, PM-assisted synchronous reluctance machines, high-temperature superconducting machines, magnetic gears, etc., are widely studied. Nevertheless, further research on the analysis, design, optimization, and control methods of this kind of high-energy-efficiency machine is still needed. The aim of this Special Issue is to present and discuss the latest advances in the theory, topology, design, modeling, optimization, and control methods of all kinds of high-energy-efficiency PM machines. Other relevant technologies involving high-performance machines are also encouraged.

Guest Editors

Dr. Xianglin Li

Prof. Dr. Yubin Wang

Dr. Xinkai Zhu

Dr. Bo Yan

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

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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.

Editor-in-Chief

Prof. Dr. Enrico Sciubba
Department of Mechanical and Aerospace Engineering, University of Roma Sapienza, Via Eudossiana 18, 00184 Roma, Italy

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