Special Issue

Advanced Permanent-Magnet Machines for Electric Vehicles

Message from the Guest Editors

With the increasing demand for energy saving and environmental protection, electric vehicles (EVs) have rapidly developed in recent years. Accordingly, the key performances of permanent-magnet (PM) machines utilized in EVs, including power density, efficiency, speed range, stability and reliability, need to be further improved to meet the requirement of EVs. In this context, advanced PM machines with special functions or excellent performances, such as dual-rotor PM machines, flux-modulated PM machines, PM-assisted synchronous reluctance machines, etc., are widely investigated. To exploit the full potential of advanced PM machines, further research on the analysis, design, optimization and control methods of these machines are still needed. The aim of this Special Issue is to present and disseminate the latest research concerning the topology, design, modeling, optimization, and control methods of all kinds of advanced PM machines for EVs. Relevant technologies, which have inherent application potential in EVs are also encouraged.

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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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