Special Issue

Rare-Earth-Free Permanent Magnet Motors and Generators for Use in Electric Vehicles and Wind Turbines

Message from the Guest Editors

Topics of interest for publication include, but are not limited to:

- Rare-earth (RE)-free permanent and soft magnets for electric machine applications.
- Working principles of permanent magnet synchronous motor (PMSM).
- AI-based design of high-torque density and low-torque ripple RE-free PMSM.
- AI-based design of RE-free permanent magnet-assisted synchronous reluctance machine (PMASynRM).
- AI-based design of energy-shifting PMSM.
- Electromagnetic characteristics of spoke-type PMSM.
- Copper and iron losses in spoke-type PMSM and PMASyncRM.
- Consumption of magnetic materials for rotor of spoke-type PMSM and PMASynRM.
- Motor controllers and control circuitry for PMSM.
- Control of back-electromotive force of PMSM.
- Finite element analysis (FEA) or method (FEM) for electromagnetic analysis of permanent magnet synchronous motors (PMSM).
- etc.

Welcome to contribute.

Guest Editors

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About the Journal

Message from the Editor-in-Chief

New phenomena and technological applications of magnetism are fascinating topics. The *Magnetism* journal aims to establish an international forum where both basic and applied developments in this field can be shared, on a budget-level peer-review publishing platform with other experts and non-specialists. The journal is inviting contributions from authors who wish to share their original work in any field related within this area, including fundamental mechanisms, theoretical models, novel magnetic materials and devices, magnetic nanostructures, magnetic recording, biomagnetism, etc. The journal will facilitate the author's process of submission and the peerreview steps for a high-quality and timely publication in order to reach the widest audience.

Editor-in-Chief

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