

## Special Issue

# Perspective Solutions for Sustainable Electric Propulsion: Novel Motors and Drive Technologies with Reduced or No Rare-Earth Materials

### Message from the Guest Editor

We welcome contributions focused on **stator permanent magnet (stator-PM) motors**, **rotor-PM motors**, and **hybrid-excitation topologies**. Advances in drive systems and control strategies are also of interest, including new power converters, fault-tolerant control, and the use of wide-bandgap semiconductors. By bridging machine design with power electronics and intelligent control, this Special Issue aims to provide a comprehensive outlook on rare-earth-conscious electric propulsion systems, supporting the next generation of sustainable technologies for various applications. **Areas of interest for publication include, but are not limited to, the following topics:**

- Rare-earth-free or reduced rare-earth electric machine designs;
- Stator-PM, rotor-PM, and hybrid excitation motor topologies;
- Demagnetization modelling, mitigation, and testing;
- Thermal robustness and thermal management;
- Advanced drive circuits and converter topologies;
- Control strategies for rare-earth-conscious motors;
- Integrated motor–drive systems;
- Multi-physics optimization and co-design;
- Applications in EVs, aerospace, and renewable energy systems.

### Guest Editor

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### Deadline for manuscript submissions

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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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