Special Issue

Emerging Trends in Superconductivity for Electric Power Technologies

Message from the Guest Editors

Superconducting power technology is becoming one of the most promising technologies in the field of power technology. Global researchers have utilized the zero-resistance and high-current-density characteristics of superconducting materials to achieve efficient, low-loss, and environmentally friendly power transmission, distribution, and storage, such as superconducting cable, superconducting wind power generation, superconducting transformer, superconducting energy storage, magnetic confinement fusion, etc. Topics of interest for publication include, but are not limited to, the following:

All aspects of superconducting wind turbine generators, superconducting DC dynamos, superconducting motor/generator technologies for more electric aircraft, electric vehicles, and electric ships.

Superconducting cable and energy pipeline. Superconducting energy storage. Superconducting smart grid. Superconducting current limiter. Superconducting transformer. Superconducting magnet. Superconducting electric equipment.

Guest Editors

Prof. Dr. Yujia Zhai

College of Electrical and Information Engineering, Hunan University, Changsha 410082, China

Prof. Dr. Jianhua Liu

Institute of Electrical Engineering, Chinese Academy of Sciences, Beijing 100015, China

Deadline for manuscript submissions

5 February 2026



Energies

an Open Access Journal by MDPI

Impact Factor 3.2 CiteScore 7.3



mdpi.com/si/197093

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

mdpi.com/journal/energies





Energies

an Open Access Journal by MDPI

Impact Factor 3.2 CiteScore 7.3



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)

