

Special Issue

Research on Power Transformers, Power Cable, High Voltage and Insulation Technology

Message from the Guest Editor

This Special Issue aims to present and disseminate the latest research developments in the field of diagnostics, condition monitoring, and aging assessment of electrical power equipment, with a particular focus on insulation systems and fault detection mechanisms. Ensuring the reliable operation of key assets such as transformers, HVDC cables, converters, circuit breakers, and other components in modern power grids requires advanced tools for real-time monitoring and early fault identification. Topics of interest include, but are not limited to, the following:

- Condition monitoring and diagnostics of electrical power equipment;
- Aging and degradation assessment of electrical power equipment;
- Diagnostics and monitoring of electrical insulation;
- Emerging diagnostics methods;
- Simulation of power equipment;
- Methods in diagnostics of electrical insulation;
- Application of signal, image processing and artificial intelligence to diagnostics of electrical insulation;
- DC Diagnostics, i.e., methods for monitoring electrical insulation in HVDC grids, cables, transformers, converters, breakers, substations, lines, insulators, etc.

Guest Editor

Prof. Dr. Xuetong Zhao

State Key Laboratory of Power Transmission Equipment Technology,
School of Electrical Engineering, Chongqing University, Chongqing
400044, China

Deadline for manuscript submissions

25 June 2026



Energies

an Open Access Journal
by MDPI

Impact Factor 3.2
CiteScore 8.3



mdpi.com/si/246036

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

[mdpi.com/journal/
energies](https://mdpi.com/journal/energies)





Energies

an Open Access Journal
by MDPI

Impact Factor 3.2
CiteScore 8.3



[mdpi.com/journal/
energies](https://mdpi.com/journal/energies)



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)