

## Special Issue

# Recent Progress, Challenges and Outlooks of Insulation System in HVDC: 2nd Edition

### Message from the Guest Editors

This Special Issue aims to present and disseminate the most recent advances related to the phenomenon, theory, design, modelling, application, and condition monitoring of all types of insulation systems including materials, devices, and projects. Topics of interest for publication include, but are not limited to, the following:

- Insulating materials for HVDC systems;
- HVDC cable insulation;
- Insulators for HVDC transmission lines;
- Air gap insulation in HVDC projects;
- HVDC insulation system under extreme conditions;
- Detection and diagnosis of insulation system in HVDC;
- Discharge phenomenon of HVDC insulation system;
- Design and maintenance of HVDC insulation system;
- Insulation system of UHV converter transformer;
- Insulation system of DC electronic equipment;
- Application of AI in HVDC insulation system.

We are looking forward to receiving your outstanding work for this Special Issue.

---

### Guest Editors

Dr. Chuyan Zhang

Prof. Dr. Xiaobo Meng

Dr. Hao Yang

Dr. Zhong Wang

---

### Deadline for manuscript submissions

20 June 2025



## Energies

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.0  
CiteScore 6.2



[mdpi.com/si/226434](https://mdpi.com/si/226434)

*Energies*

MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[energies@mdpi.com](mailto:energies@mdpi.com)

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





# Energies

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.0  
CiteScore 6.2



[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 Aerospace Engineering, University of Roma Sapienza, Via Eudossiana 18, 00184 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)