



Recent Developments in Theories, Technologies and Applications of HVDC Insulation Systems

Guest Editors:

Dr. Jiaming Yang

Dr. Shihang Wang

Dr. Yalin Wang

Deadline for manuscript
submissions:

closed (28 March 2024)

Message from the Guest Editors

Dear Colleagues,

This Special Issue aims to jointly discuss new theories, new technologies, and new applications of HVDC insulation systems, and promote the development of insulation technology.

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

1. New HVDC insulating materials, including nanocomposite insulating materials, functional molecular-modified insulating materials, graded insulating materials, nonlinear insulating materials, and environmentally friendly insulating materials;
2. Charge transport characteristics in HVDC insulating materials;
3. Flashover behavior of gas-insulated switchgear and outdoor insulation;
4. Aging behavior of HVDC insulating materials;
5. Design of new HVDC insulation system and insulation structure;
6. The regulation and optimization of the design of the electric field in the HVDC insulation system;
7. Monitoring and diagnosis of the insulation status of HVDC power equipment;
8. New characterization technology of structure and performance of HVDC insulation.





energies



an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Enrico Sciubba

Department of Mechanical and
Aerospace Engineering,
University of Roma Sapienza, Via
Eudossiana 18, 00184 Roma, Italy

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.

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 (*Engineering (miscellaneous)*)

Contact Us

Energies Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/energies
energies@mdpi.com
[X@energies_mdpi](https://x.com/energies_mdpi)