Special Issue

New Insulation Materials for Smart Power Equipment

Message from the Guest Editors

Considering the rapid technological advancement, smart dielectric materials are expected to be designed, manufactured, and utilized for the next generation of power system equipment and networks. In addition to the traditional characteristics of insulation materials, which are necessary for reliable operation of the power network, these materials provide extra benefits that make them attractive for the next generation of power systems to accommodate better use of renewable energies and integration into a smart, self-healing power grid. This Special Issue will be focused on all aspects of design, manufacturing, and utilization of new insulation materials proposed for use in the smart power equipment and network. Researchers are encouraged to submit their original papers related to the above topics, particularly including but not restricted to:

- Smart materials for energy applications;
- Functional materials for both HVDC and HVAC applications, with the purpose of space charge reduction and better withstanding of partial discharge activity;
- Advanced self-healing materials for high voltage applications.

Guest Editors

Dr. Shahab Farokhi

Department of Electrical and Electronic Engineering, Glasgow Caledonian University, Glasgow G4 0BA, UK

Dr. Davide Fabiani

LIMES, Department of Electrical, Electronic and Information Engineering, University of Bologna, Bologna, Italy

Deadline for manuscript submissions

closed (10 August 2024)

Energies

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 7.3

mdpi.com/si/134115

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

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)

MDPI