Special Issue

Overvoltage Protection of Electrical Networks

Message from the Guest Editors

Overvoltage surges can be limited using simple spark gaps or more effectively using high performance modern zinc oxide ZnO surge arresters. The process of designing, selecting, and applying surge overvoltage protection schemes requires an improved understanding of the fault mechanism or lightning surge mechanism attachment to the circuit, the propagation criteria of the surge along the network, the design aspects of the electricity network and its equipment, the insulation withstand level, and the performance of the earthing system. In addition, the surge overvoltage device needs to be designed, selected, and positioned adequately for an effective overvoltage limitation and the protection of valuable equipment. The aim of such protection is to achieve insulation coordination for the system that is both effective and economical. An acceptable risk of failure of the system can result when the stress on the system versus the strength of its components are considered in the context of insulation coordination.

Guest Editors

Prof. A. Manu Haddad

Advanced High Voltage Engineering Research Centre, Cardiff University, The Parade, Cardiff CF24 3AA, UK

Prof. Pantelis N. Mikropoulos

High Voltage Laboratory, School of Electrical and Computer Engineering, Faculty of Engineering, Aristotle University of Thessaloniki, 54124 Thessaloniki, Greece

Deadline for manuscript submissions

closed (31 January 2020)

Energies

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 7.3

mdpi.com/si/20498

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