Special Issue

Partial Discharge Monitoring and Analysis

Message from the Guest Editor

Partial discharge monitoring has two advantages over other insulation diagnostics, namely: it is a real time monitor of insulation conditions, and partial discharges can be detected by a wide variety of different techniques, including direct electrical, ultrasonic detection, optical methods, and VHF and UHF methods using aerial sensors. The general theme of this Special Issue on partial discharge diagnostics will be on new PD applications and analysis. These include, for example, the interpretation of the partial discharge results obtained using VLF excitation, and the partial discharge testing and condition assessment methods of HVDC equipment insulation. Papers that investigate the use of on-line monitoring and intelligent systems of analysis are welcome for both traditional and non-traditional PD methods. Research covering on-line monitoring and the analysis of results using data mining and big data methods are also welcome. The scope includes distribution and transmission level voltages, as well as all types of HV equipment items.

Guest Editor

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Deadline for manuscript submissions

closed (30 April 2022)

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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.

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