Special Issue

Advances in Online Partial Discharge Monitoring Systems

Message from the Guest Editor

The partial discharge (PD) phenomenon is both a major cause and a very reliable indicator of developing insulation defects in electrical power devices. The defect development dynamics very often increase in the final stage, shortly before catastrophic failure. For this reason, online PD monitoring systems are currently gaining popularity and are the subject of numerous research and development works. The aim of this Special Issue is to create a platform for the dissemination of the latest research results and the exchange of operational experiences regarding the use and implementation of online PD monitoring systems. Potential topics include, but are not limited to, the following:

- Design of hardware and software components of the online PD monitoring system
- Case studies and practical examples of the use of online PD monitoring systems in the diagnostics of electrical power equipment
- Application of online PD detection methods (acoustic, optical, electromagnetic and chemical)
- PD sensors
- PD pattern classification and fault recognition algorithms
- Digital signal processing applied to the detection and continuous monitoring of partial discharges.

Guest Editor

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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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