Special Issue

Frontiers in Advanced Power Equipment and Research in Condition Diagnostic and Sensing

Message from the Guest Editors

The fast growth of renewable electricity has resulted in new challenges regarding electrical grids. Any failures of the power equipment may lead to a serious blackout. Therefore, there is an urgent demand to develop advanced power equipment and both convenient and low-cost condition diagnostic and sensing methods to ensure the safety of electrical grids. In this Special Issue, we aim to provide a forum for colleagues to report on the most up-to-date research results regarding the frontiers of advanced power equipment and research in condition diagnostic and sensing fields, as well as comprehensive surveys of state-of-the-art equipment in relevant specific areas. The topics of interest include but are not limited to: Novel power equipment structure design, parameter optimization, and implementation; Multi-physics coupling modeling and analysis, including electricity, temperature, and mechanical fields; Multi-functional sensor design and testing; Optical sensors for power equipment detection; MEMS sensors for power equipment detection; Distributed sensing methods; Smart sensing networks; Artificial intelligence-based signal processing algorithms; and Field application cases.

Guest Editors

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Deadline for manuscript submissions

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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.

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