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Advanced Research of High Voltage Insulation

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Message from the Guest Editors

Dear Colleagues,

Electrical insulations are increasingly operated in circumstances where the stresses are different from traditional ones, including DC stress, new types of load patterns due to renewable generation and electric vehicle charging, and the widespread application of switching mode power electronics. At the same time, novel solutions are gaining popularity in case of solid, liquid, and gaseous insulation, e.g. nanocomposites, ester liquids, and fluoronitriles. In order to ensure the long-term reliable operation of the newly stressed traditional insulation and novel materials, it is of utmost importance to understand the underlying physical phenomena. This will also facilitate the enhancement of the different physical properties of insulating materials and set the basis of environmentally friendly solutions. Last, but not least, the above require the adjustment of diagnostic and lifetime estimation methods.

This Special Issue invites original papers and reviews investigating the fundamental physics and application of dielectrics and their diagnostic methods.



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Special Issue



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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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