Special Issue

New Advances in Damage Analysis and Lifetime Prediction of Electrical Cables in Nuclear Power Plants

Message from the Guest Editors

This Special Issue aims to give an overview on the most recent advances in damage analysis and lifetime prediction of cables used in nuclear power plants. Selected contributions are invited to provide reviews and analyses of the main polymer degradation mechanisms and their effects on material reliability and properties at various scales (from physical–chemical to mechanical and electrical material behavior). Potential topics include but are not limited to:

- Multiscale analyses of degradation and aging mechanisms inside electrical cables;
- Lab-scale techniques for cable aging assessment;
- Development of non-destructive testing techniques for monitoring the health of cables on site:
- Lifetime prediction and reliability of cables under radiothermal stresses.

Guest Editors

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Deadline for manuscript submissions

closed (31 January 2022)



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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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