

## 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.

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### Guest Editors

Dr. Simone Vincenzo Suraci

Prof. Dr. Xavier Colin

Dr. Davide Fabiani

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### Deadline for manuscript submissions

closed (31 January 2022)



## Energies

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*Energies*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[energies@mdpi.com](mailto:energies@mdpi.com)

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## About the Journal

### 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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### Editor-in-Chief

Prof. Dr. Enrico Sciubba  
Department of Mechanical and Industrial Engineering, University  
Niccolò Cusano, 00166 Roma, Italy

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