

## Special Issue

# Novel Advances in High Voltage Insulation

### Message from the Guest Editors

This Special Issue highlights the latest developments in high-voltage insulation, emphasizing the incorporation and influence of machine learning and exploring additional aspects of this discipline. Its goal is to combine machine learning insights with advancements in high-voltage insulation materials, their design, condition monitoring, and diagnostics in a multidisciplinary manner. We welcome submissions that investigate the use of machine learning methods in forecasting and detecting insulation issues, improving the dependability of high-voltage systems, and optimizing maintenance approaches. Submissions should showcase the successful integration of machine learning algorithms with high-voltage insulation technologies, addressing the obstacles and advancements in the field. This Special Issue also invites research on innovative insulation materials and their characteristics, sophisticated production methods for insulation systems, and creative approaches for testing and evaluating insulation.

---

### Guest Editors

Dr. Rahmat Ullah

School of Engineering, Cardiff University, Cardiff CF10 3AT, UK

Dr. David Clark

School of Engineering, Cardiff University, Cardiff CF10 3AT, UK

---

### Deadline for manuscript submissions

31 October 2025



## Applied Sciences

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.5  
CiteScore 5.5



[mdpi.com/si/209140](https://mdpi.com/si/209140)

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

[mdpi.com/journal/appls](https://mdpi.com/journal/appls)





# Applied Sciences

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.5  
CiteScore 5.5



[mdpi.com/journal/  
applsci](https://mdpi.com/journal/applsci)



## About the Journal

### Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

---

### Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo  
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32,  
20133 Milano, Italy

---

### Author Benefits

#### Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

#### High Visibility:

indexed within Scopus, SCIE (Web of Science), Ei Compendex, Inspec, CAPlus / SciFinder, and other databases.

#### Journal Rank:

JCR - Q2 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering )