



Polyphase Insulation and Discharge in High-Voltage Technology

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Message from the Guest Editors

High-voltage devices play a pivotal role in the realms of electric and electronic engineering. The dire requirement for mechanical support and for isolation among distinct gas or liquid chambers necessitate the adoption of polyphase insulation structures within these devices. These structures encompass gas–solid, liquid–solid, or solid–solid interfaces with diverse materials or phases. Moreover, advantages such as compact geometry and better cooling also encourage researchers and engineers to design and incorporate polyphase insulation structures into their novel prototypes.

We welcome submissions of original research articles and reviews in areas including (but not limited to) the following:

- Novel design methods of polyphase insulation structures;
- Electrical, mechanical, and thermal properties of polyphase dielectrics;
- Fundamental characteristics of polyphase discharge and resultant plasma;
- Innovative diagnosis methods of polyphase insulation structures;
- Simulation and experimental approaches for polyphase insulation;
- Utilization of advanced polyphase insulation in high voltage technology.





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Message from the Editor-in-Chief

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