



Advances in Dielectric Coatings

Guest Editor:

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Message from the Guest Editor

Research on breakdown and flashover caused by conductive metal particles in gas-insulated metal-enclosed systems is an important field of study. An effective coating can reduce particle charge and thus the probability of discharge. Studying the effects of coating materials on particle charging characteristics, movement and discharge, which can be effectively improved the breakdown voltage of the dielectric.

original research articles and reviews are welcome. Research areas may include (but are not limited to) the following:

- The effects of coating materials on particle charging characteristics.
- Preparation and improvement of advanced dielectric coating materials.
- Motion characteristics of metal particles on the electrode surface.
- Surface charge accumulation and surface flashover voltage.
- Advanced methods for surface charge measurement.





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Message from the Editorial Board

Now more than ever, research is asked to deliver knowledge and technologies to solve the major challenges faced by our society. The development of new materials and devices for (without the ambition to be exhaustive) energy, health and food technology, together with the need for establishing processes that reduce the impact on critical resources and the environment, is indeed in the spotlight of most contemporary research. Surface science and engineering play a key role in this regard, with an incredible potential in delivering new and deep scientific understanding and technical solutions essential to solve most of the major societal challenges.

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