

Advances in Dielectric Coatings

Guest Editor:

Prof. Dr. Jixing Sun

School of Electrical Engineering,
Beijing Jiaotong University,
Beijing, China

Deadline for manuscript
submissions:

closed (20 July 2023)

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.



Editors-in-Chief

Prof. Dr. Wei Pan

State Key Laboratory of New
Ceramics and Fine Processing,
School of Materials Science &
Engineering, Tsinghua University,
Beijing 100084, China

Dr. Emerson Coy

NanoBioMedical Centre, Adam
Mickiewicz University in Poznań,
ul. Wszechnicy Piastowskiej 3, 61-
614 Poznań, Poland

Message from the Editorial Board

Now more than ever, research is called for to produce technologies and improve knowledge 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 at the center of most contemporary research. Surface science and engineering play a key role in this regard. Refining surfaces and their modifications provides new materials, architectures and processes with a huge potential to aid most societal challenges. *Coatings* is a well-established, peer-reviewed, online journal that focuses on the dissemination of publications in the field of surface science and engineering. *Coatings* publishes original research articles that report cutting-edge results and review papers on the hottest topics.

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), Inspec, CAPlus / SciFinder, and other databases.

Journal Rank: JCR - Q2 (*Materials Science, Coatings & Films*) / CiteScore - Q2 (*Surfaces and Interfaces*)

Contact Us

Coatings Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/coatings
coatings@mdpi.com
X@Coatings_MDPI