

Advanced Coating Materials for Power Network Equipment

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Message from the Guest Editors

We would like to invite you to submit your work to this Special Issue on “**Advanced Coating Materials for Power Network Equipment**”. Progress made in the field of material science has renewed interest in the development of functional and smart coatings, which can be engineered to provide surfaces with specifies desirable properties. These coatings would provide surfaces that behave more suitably in terms of resistance to corrosion, electrical, mechanical or chemical damages, as well as ice and pollution adhesion. The development of these coatings is worthwhile due to both environmental and economic concerns. The aim of this Special Issue is to present the latest experimental and theoretical developments in the field, through a combination of original research papers and review articles from leading groups around the world.

In particular, topics of interest include, but are not limited to:

- Nanodielectric coating;
- Icephobic coating;
- Protective coating for high voltage equipment;
- Self-healing coatings;
- Semi-conductive coatings.



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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.

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