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Dielectric Materials for Energy Storage, Energy Harvesting and Electrocaloric Applications

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Deadline for manuscript submissions:
closed (31 August 2024)

Message from the Guest Editors

We are pleased to announce the launch of a Special Issue on "Dielectric Materials for Energy Storage, Energy Harvesting and Electrocaloric Applications" in *Coatings*. This Special Issue aims to highlight the latest research and advancements in the field of dielectric materials, with a specific focus on their applications in energy storage, energy harvesting and electrocaloric applications.
We invite researchers and experts to contribute their original research articles or reviews to this Special Issue. Topics of interest include, but are not limited to:

- Novel dielectric materials for energy storage and capacitors;
- Advances in thin film deposition techniques for dielectric materials;
- Electrocaloric effect in dielectric materials for solid-state cooling;
- Dielectric polymers for energy harvesting applications;
- Nanogenerators based on dielectric materials for self-powered systems;
- Characterization techniques for dielectric materials in energy applications.

We look forward to receiving your valuable contributions and making this Special Issue a significant resource for the scientific community.

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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.

Coatings is a well-established, peerreviewed, online journal dedicated to the vibrant field of surface science and engineering. Coatings publishes original research articles that report cutting-edge results and review papers that make the point on the hottest research topics.

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