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Advances in Ferroelectric and Piezoelectric Thin Films: Synthesis, Properties and Applications

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Deadline for manuscript submissions:
closed (31 December 2020)

Message from the Guest Editors

Dear Colleagues,

We would like to invite you and appreciate your contribution to this Special Issue of *Coatings* entitled "Advances in Ferroelectric and Piezoelectric Thin Films: Synthesis, Properties, and Applications".

This issue aims to summarize the recent advances in thin film and nanoscale ferroelectric and piezoelectric materials, with subject matters ranging from synthesis, growth, their related functional properties, and device fabrication. Authors are invited to submit original research, critical review articles, or short communications focused on but not limited to these topics:

- Lead-free piezoelectric;
- Flexible mechanical/piezoelectric energy harvesters;
- Pyroelectric and electrocaloric effect;
- Ferro/piezoelectric polymer nanocomposites;
- Ferroelectric thin films for high energy storage devices;
- Domain structure and local piezoelectric properties;
- Domain and domain wall engineering;
- Thin films of organic and MOF ferroelectrics.

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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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